

Nomenclatural novelties : Alexander B. Doweld

Zygophlyctis Doweld, gen.nov.

IF550450

Thallus monocentric, eucarpic, sporangium and resting spore developed by direct enlargement of the zoospore. Sporangium ampulliform to pyriform. Rhizoidal system endobiotic, of branched threads; operculum develops at the top of an apical papilla; dehiscence apical. Zoospores with dispersed or loosely aggregated ribosomes and a rumposome complex, possess a number of vesicle types (fibrillar vesicle lies adjacent to the rumposome); nonfunctional centriole constructed of a ring of singlet microtubules and often completely disassociated from the kinetosome. Resting spores globose, spherical.

Holotype: *Zygophlyctis planktonica* Doweld 2014.

Zygophlyctis planktonica Doweld, sp.nov.

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Thallus monocentric, eucarpic, sporangium and resting spore developed by direct enlargement of the zoospore. Sporangium ampulliform to pyriform, 4 Åµm long x 3 Åµm broad to 13 Åµm long x 11.2-11.9 Åµm broad. Rhizoidal system consisting of a single axis which terminates endobiotically in a short system of branched threads. Operculum 2-3.7 Åµm diam, develops at the top of an apical papilla; dehiscence apical. Zoospores 3-40 per sporangium, spherical, 2.5-3 Åµm diam., with a single globule; flagellum 15 Åµm long, whiplash portion less than 1 Åµm; with dispersed or loosely aggregated ribosomes and a rumposome complex, possess a number of vesicle types (fibrillar vesicle lies adjacent to the rumposome); non-functional centriole constructed of a ring of singlet microtubules and often completely disassociated from the kinetosome. Resting spores globose, spherical, rarely broadly oval 4-8 Åµm long x 4.3 Åµm broad to 12.5 Åµm long x 11.2-11.9 Åµm broad; walls thick, smooth, composed of several large refractive globules surrounded by groups or lines of more numerous, small peripheral globules. Formed after fusion of two thalli via a conjugation tube up to 20 Åµm long. Empty male thallus (2.4 x 2.4 Åµm to 7 x 6.9 Åµm). Rhizoidal system of male and female thallus similar to that of sporangium. (Modified after Canter in Bot. J. Linn. Soc. 60: 89. 1967).

NOMENCLATURAL COMMENTS: A new species name is validated instead of invalidly published *Zygorhizidium planktoicum* Canter in Trans. Brit. Mycol. Soc. 36: 34. 1953 (lacking Latin description) and *Zygorhizidium planktonicum* Canter in Bot. J. Linn. Soc. 60: 89. 1967 (lacking holotype designation).

Holotype (iconotypus) figs. tab. 2, fig. 3; tab 3, fig. 7; tab in Bot. J. Linn. Soc. 60: 89. 1967.